

Anex

XPG Cybercore II 1300 Platinum

Lab ID#: AD13002075
Receipt Date: Sep 12, 2022
Test Date: Oct 10, 2022

Report: 22PS2075A
Report Date: Oct 11, 2022

DUT INFORMATION	
Brand	XPG
Manufacturer (OEM)	CWT
Series	Cybercore II
Model Number	CYBERCOREII1300PLATINUM
Serial Number	
DUT Notes	

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	15
Rated Frequency (Hz)	50-60
Rated Power (W)	1300
Type	ATX12V
Cooling	120mm Double Ball Bearing Fan (D1225C12B6ZPAC7)
Semi-Passive Operation	✓
Cable Design	Fully Modular

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2
AC Sources	Chroma 6530, Keysight AC6804B
Power Analyzers	N4L PPA1530 x2
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2
Tachometer	UNI-T UT372 x2
Digital Multimeter	Keysight U1273AX, Fluke 289, Keithley 2015 - THD
UPS	CyberPower OLS3000E 3kVA x2
Transformer	3kVA x2

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XPG Cybercore II 1300 Platinum

RESULTS

Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX 3.0 Ready	✓

115V

Average Efficiency	89.428%
Efficiency With 10W (≤500W) or 2% (>500W)	71.042
Average Efficiency 5VSB	79.225%
Standby Power Consumption (W)	0.0222000
Average PF	0.987
Avg Noise Output	29.69 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A-

230V

Average Efficiency	91.667%
Average Efficiency 5VSB	78.400%
Standby Power Consumption (W)	0.0947000
Average PF	0.951
Avg Noise Output	29.65 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A-

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	25	25	108.33	3	0.3
	Watts	130		1300	15	3.6
Total Max. Power (W)		1300				

HOLD-UP TIME & POWER OK SIGNAL (230V)

Hold-Up Time (ms)	20.8
AC Loss to PWR_OK Hold Up Time (ms)	17.4
PWR_OK Inactive to DC Loss Delay (ms)	3.4

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (750mm)	1	1	16-18AWG	No
4+4 pin EPS12V (750mm)	2	2	16AWG	No
6+2 pin PCIe (750mm)	6	6	16AWG	No
6+2 pin PCIe (750mm+150mm)	2	4	16-18AWG	No
12+4 pin PCIe (650mm) (600W)	1	1	16-24AWG	No
SATA (600mm+150mm+150mm+150mm)	1	4	18AWG	No
4-pin Molex (600mm+150mm+150mm+150mm)	1	4	18AWG	No

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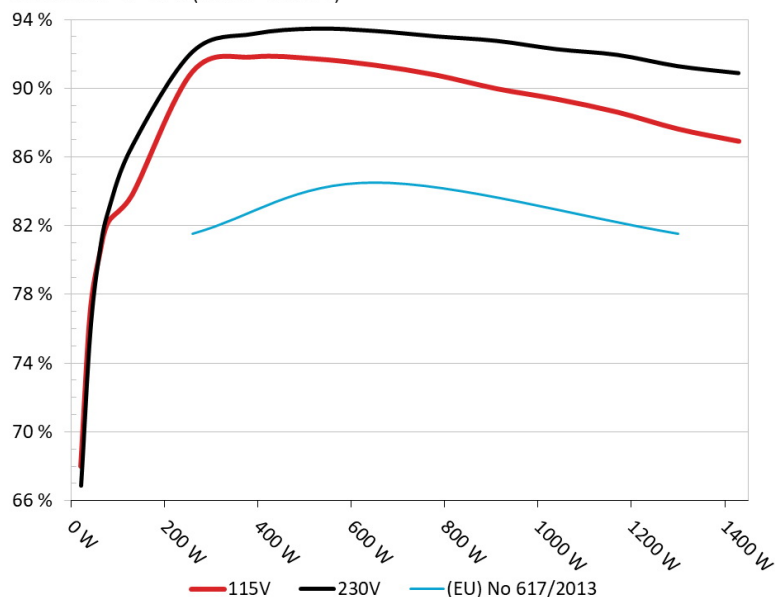
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: XPG Cybercore II 1300W Platinum

Ambient: 37°C - 47°C (98.6°F - 116.6°F)



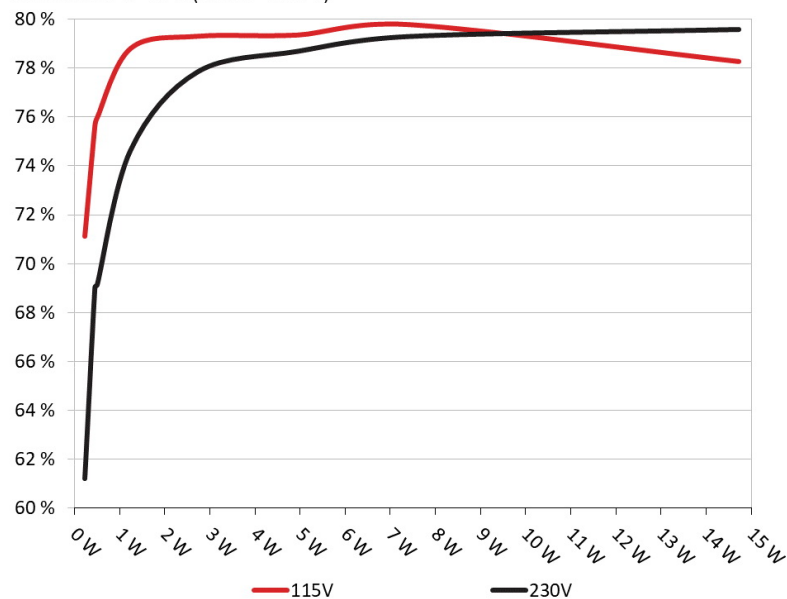
INFO

The PSU's efficiency under high ambient temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation table are used

5VSB EFFICIENCY

5VSB Efficiency: XPG Cybercore II 1300W Platinum

Ambient: 34°C - 36°C (93.2°F - 96.8°F)



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.223W	71.114%	0.025
	4.963V	0.314W		114.94V
2	0.09A	0.447W	75.65%	0.046
	4.962V	0.591W		114.93V
3	0.55A	2.725W	79.31%	0.226
	4.953V	3.435W		114.92V
4	1A	4.945W	79.361%	0.331
	4.944V	6.231W		114.93V
5	1.5A	7.402W	79.789%	0.388
	4.934V	9.277W		114.93V
6	3A	14.717W	78.275%	0.475
	4.905V	18.802W		114.93V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.223W	61.223%	0.008
	4.962V	0.365W		229.9V
2	0.09A	0.447W	69.132%	0.014
	4.961V	0.647W		229.9V
3	0.55A	2.725W	77.839%	0.076
	4.953V	3.5W		229.9V
4	1A	4.945W	78.676%	0.13
	4.944V	6.286W		229.89V
5	1.5A	7.402W	79.28%	0.182
	4.934V	9.337W		229.9V
6	3A	14.717W	79.567%	0.294
	4.905V	18.496W		229.89V

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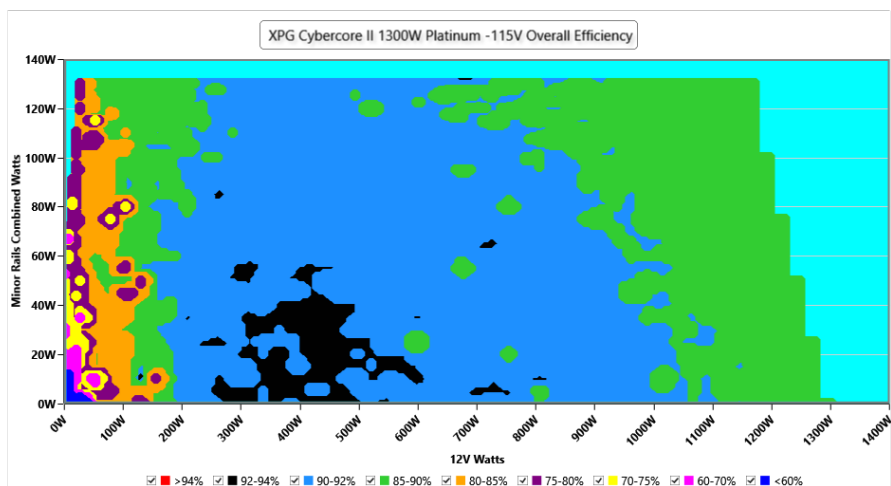
115V

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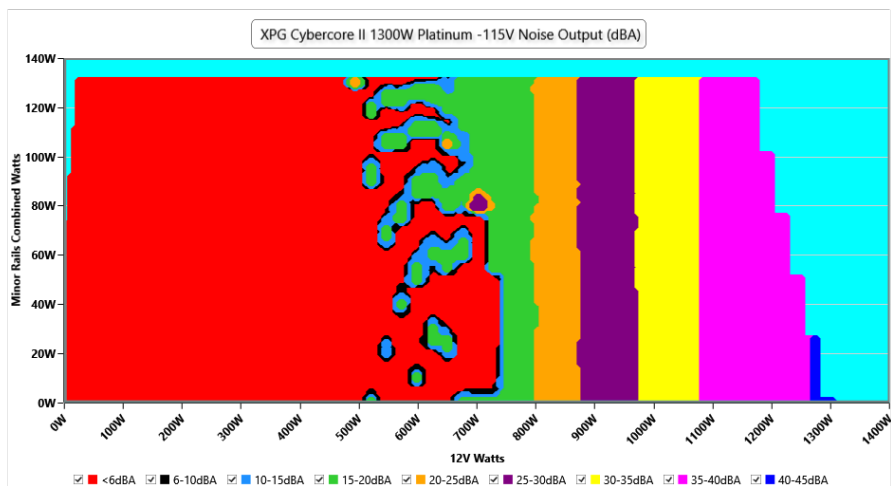
EFFICIENCY GRAPH 115V



INFO

This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

NOISE GRAPH 115V



INFO

The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -115V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	114.94 V	114.90 V	113.85 V	114.97 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.98 Hz	59.40 Hz	60.05 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.417	1.416	1.340	1.418	1.490	PASS
Mains Voltage THD:	0.15 %	0.11 %	N/A	0.20 %	2.00 %	PASS
Real Power:	0.022 W	0.020 W	N/A	0.024 W	N/A	N/A
Apparent Power:	12.707 W	12.686 W	N/A	12.729 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

INFO

This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

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10-110% LOAD TESTS 115V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	8.955A	1.988A	2.004A	0.998A	130.025	84.275%	0	<6.0	44.87°C	0.882
	12.108V	5.03V	3.294V	5.011V	154.376				40.6°C	114.37V
20%	18.937A	2.983A	3.009A	1.199A	259.987	91.464%	0	<6.0	45.52°C	0.992
	12.097V	5.028V	3.291V	5.006V	284.246				40.87°C	114.86V
30%	29.261A	3.481A	3.514A	1.4A	389.782	92.304%	0	<6.0	46.71°C	0.995
	12.089V	5.027V	3.287V	5.001V	422.309				41.45°C	114.84V
40%	39.614A	3.98A	4.02A	1.602A	519.746	92.199%	0	<6.0	47.55°C	0.997
	12.080V	5.026V	3.284V	4.995V	563.64				41.82°C	114.82V
50%	49.657A	4.977A	5.031A	1.804A	649.887	91.829%	0	<6.0	48.51°C	0.997
	12.070V	5.024V	3.28V	4.99V	707.909				42.38°C	114.78V
60%	59.719A	5.975A	6.045A	2A	779.961	91.256%	691	10.1	42.71°C	0.997
	12.060V	5.022V	3.276V	4.984V	854.802				49.32°C	114.75V
70%	69.795A	6.975A	7.063A	2.211A	910.092	90.461%	1197	24.1	43.14°C	0.997
	12.050V	5.019V	3.271V	4.977V	1006.707				50.2°C	114.7V
80%	79.876A	7.977A	8.082A	2.313A	1039.702	89.85%	1515	30.1	43.61°C	0.998
	12.041V	5.016V	3.266V	4.973V	1157.221				51.82°C	114.68V
90%	90.393A	8.479A	8.582A	2.416A	1169.964	89.091%	1803	35.6	44.97°C	0.997
	12.030V	5.014V	3.262V	4.968V	1313.233				53.99°C	114.64V
100%	100.669A	8.981A	9.115A	3.03A	1299.58	88.114%	2308	42.0	45.53°C	0.998
	12.018V	5.012V	3.258V	4.952V	1474.794				55.57°C	114.61V
110%	110.866A	9.985A	10.234A	3.031A	1429.795	87.397%	2307	42.0	46.55°C	0.998
	12.010V	5.009V	3.254V	4.95V	1636.215				57.49°C	114.55V
CL1	0.116A	15.615A	15.683A	0A	131.331	80.412%	0	<6.0	42.72°C	0.941
	12.101V	5.016V	3.29V	5.052V	162.771				48.18°C	114.33V
CL2	0.116A	24.952A	0A	0A	126.439	78.195%	0	<6.0	43.86°C	0.932
	12.105V	5.011V	3.301V	5.076V	161.349				50.87°C	114.35V
CL3	0.116A	0A	25.131A	0A	83.889	73.391%	0	<6.0	44.7°C	0.928
	12.096V	5.027V	3.282V	5.019V	114.329				52.76°C	114.93V
CL4	108.119A	0A	0A	0A	1300.022	88.559%	2292	42.0	45.22°C	0.998
	12.024V	5.032V	3.27V	5.014V	1468.176				55.13°C	114.6V

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XPG Cybercore II 1300 Platinum

20-80W LOAD TESTS 115V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20W	1.226A	0.496A	0.499A	0.198A	20.008	68.489%	0	<6.0	39.81°C	0.732
	12.114V	5.043V	3.303V	5.039V	29.256				36.76°C	114.92V
40W	2.700A	0.694A	0.7A	0.298A	40.008	77.361%	0	<6.0	40.71°C	0.843
	12.113V	5.041V	3.302V	5.035V	51.897				37.35°C	114.92V
60W	4.173A	0.893A	0.9A	0.398A	60.01	80.743%	0	<6.0	42.01°C	0.895
	12.111V	5.037V	3.299V	5.029V	74.345				38.28°C	114.92V
80W	5.645A	1.093A	1.101A	0.498A	79.974	82.75%	0	<6.0	43.59°C	0.919
	12.107V	5.032V	3.297V	5.023V	96.54				39.62°C	114.93V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.26mV	6.08mV	7.00mV	6.30mV	Pass
20% Load	9.98mV	6.49mV	6.24mV	7.27mV	Pass
30% Load	12.23mV	6.85mV	10.02mV	7.73mV	Pass
40% Load	14.84mV	7.05mV	7.00mV	7.83mV	Pass
50% Load	16.58mV	7.92mV	7.46mV	8.39mV	Pass
60% Load	19.19mV	8.84mV	8.23mV	9.37mV	Pass
70% Load	17.86mV	8.58mV	8.33mV	9.26mV	Pass
80% Load	20.98mV	9.70mV	9.41mV	9.83mV	Pass
90% Load	23.49mV	10.37mV	10.79mV	11.46mV	Pass
100% Load	28.37mV	10.84mV	11.89mV	11.99mV	Pass
110% Load	31.89mV	11.82mV	11.36mV	12.39mV	Pass
Crossload1	11.98mV	9.56mV	9.92mV	8.83mV	Pass
Crossload2	11.46mV	12.82mV	6.70mV	10.08mV	Pass
Crossload3	18.01mV	8.78mV	14.78mV	7.47mV	Pass
Crossload4	28.95mV	10.00mV	9.67mV	10.97mV	Pass

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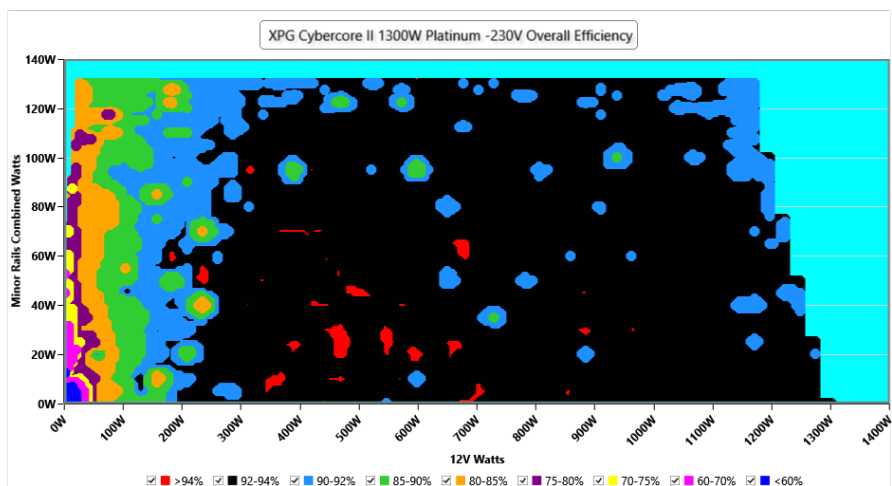
230V

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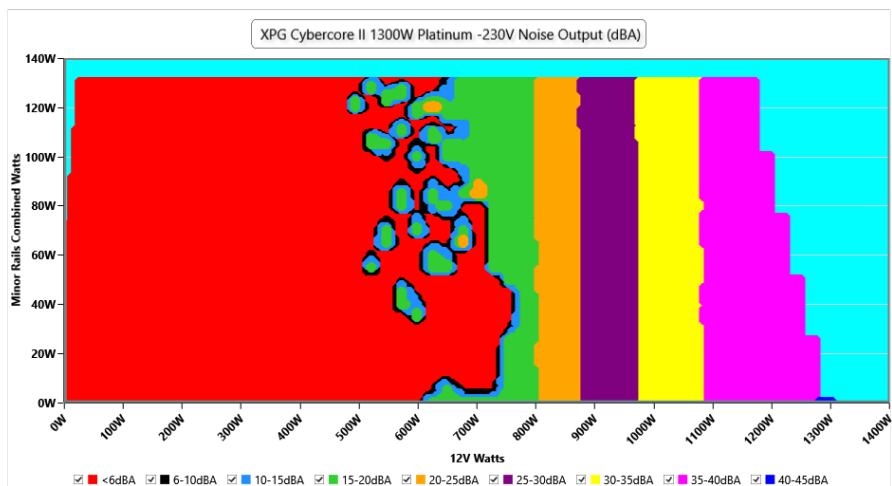
EFFICIENCY GRAPH 230V



INFO

This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

NOISE GRAPH 230V



INFO

The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	229.88 V	229.84 V	227.70 V	229.94 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS
Mains Voltage THD:	0.17 %	0.15 %	N/A	0.20 %	2.00 %	PASS
Real Power:	0.095 W	0.087 W	N/A	0.106 W	N/A	N/A
Apparent Power:	42.789 W	42.767 W	N/A	42.817 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

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10-110% LOAD TESTS 230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	8.958A	1.987A	2.004A	0.997A	130.056	87.139%	0	<6.0	45.17°C	0.884
	12.108V	5.033V	3.294V	5.015V	149.147				40.71°C	229.88V
20%	18.942A	2.982A	3.01A	1.198A	260.025	92.623%	0	<6.0	45.77°C	0.943
	12.096V	5.031V	3.289V	5.009V	280.815				40.92°C	229.86V
30%	29.271A	3.48A	3.515A	1.399A	389.855	93.642%	0	<6.0	46.69°C	0.954
	12.087V	5.029V	3.286V	5.003V	416.309				41.27°C	229.85V
40%	39.628A	3.978A	4.022A	1.601A	519.82	93.943%	0	<6.0	47.53°C	0.957
	12.077V	5.028V	3.282V	4.997V	553.382				41.47°C	229.83V
50%	49.673A	4.975A	5.034A	1.803A	649.96	93.808%	0	<6.0	48.65°C	0.965
	12.068V	5.026V	3.278V	4.991V	692.929				42.13°C	229.82V
60%	59.722A	5.974A	6.05A	2A	780.058	93.494%	697	10.0	42.79°C	0.971
	12.060V	5.023V	3.273V	4.985V	834.458				49.85°C	229.8V
70%	69.783A	6.974A	7.069A	2.21A	910.169	93.234%	1197	24.1	43.31°C	0.968
	12.053V	5.02V	3.269V	4.978V	976.33				50.88°C	229.79V
80%	79.883A	7.976A	8.089A	2.313A	1039.801	92.746%	1513	30.0	43.82°C	0.981
	12.041V	5.017V	3.264V	4.974V	1121.065				52.02°C	229.77V
90%	90.387A	8.478A	8.59A	2.416A	1170.059	92.418%	1885	36.6	44.81°C	0.982
	12.032V	5.015V	3.26V	4.969V	1266.119				53.83°C	229.75V
100%	100.665A	8.98A	9.124A	3.029A	1299.666	91.761%	2304	42.0	45.31°C	0.989
	12.019V	5.013V	3.255V	4.953V	1416.466				55.33°C	229.74V
110%	110.868A	9.983A	10.243A	3.03A	1429.843	91.358%	2304	42.0	46.73°C	0.988
	12.010V	5.011V	3.251V	4.951V	1565.062				57.65°C	229.72V
CL1	0.116A	15.609A	15.694A	0A	131.333	81.729%	0	<6.0	48.33°C	0.889
	12.102V	5.018V	3.288V	5.055V	160.781				42.89°C	229.88V
CL2	0.116A	24.945A	0A	0A	126.44	79.55%	0	<6.0	50.58°C	0.89
	12.106V	5.013V	3.299V	5.078V	158.882				43.53°C	229.87V
CL3	0.116A	0A	25.154A	0A	83.888	74.264%	0	<6.0	52.95°C	0.809
	12.098V	5.027V	3.279V	5.02V	113.147				44.85°C	229.88V
CL4	108.095A	0A	0A	0A	1299.996	92.148%	2295	42.0	45.76°C	0.989
	12.026V	5.032V	3.268V	5.014V	1410.78				55.65°C	229.74V

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Anex

XPG Cybercore II 1300 Platinum

20-80W LOAD TESTS 230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20W	1.226A	0.496A	0.499A	0.198A	20.004	67.363%	0	<6.0	39.79°C	0.417
	12.114V	5.045V	3.303V	5.041V	30.008				36.68°C	229.89V
40W	2.700A	0.694A	0.7A	0.298A	40.005	76.367%	0	<6.0	41.82°C	0.587
	12.113V	5.043V	3.302V	5.037V	52.416				38.53°C	229.89V
60W	4.172A	0.893A	0.9A	0.398A	60.004	80.972%	0	<6.0	42.55°C	0.695
	12.111V	5.039V	3.299V	5.031V	74.113				39.02°C	229.89V
80W	5.642A	1.092A	1.101A	0.498A	79.959	83.483%	0	<6.0	42.99°C	0.768
	12.111V	5.035V	3.297V	5.025V	95.784				39.21°C	229.89V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	10.08mV	5.87mV	6.85mV	6.19mV	Pass
20% Load	10.80mV	6.54mV	6.70mV	7.68mV	Pass
30% Load	12.95mV	15.99mV	11.15mV	15.15mV	Pass
40% Load	15.38mV	7.31mV	7.52mV	7.83mV	Pass
50% Load	15.81mV	14.81mV	9.77mV	14.48mV	Pass
60% Load	16.73mV	9.19mV	7.82mV	9.26mV	Pass
70% Load	20.57mV	10.06mV	8.13mV	9.77mV	Pass
80% Load	19.70mV	9.45mV	9.36mV	10.34mV	Pass
90% Load	22.26mV	10.62mV	9.97mV	10.64mV	Pass
100% Load	29.32mV	11.02mV	11.56mV	11.06mV	Pass
110% Load	31.92mV	12.56mV	11.89mV	12.27mV	Pass
Crossload1	11.65mV	9.99mV	9.73mV	8.48mV	Pass
Crossload2	11.00mV	12.92mV	6.70mV	9.93mV	Pass
Crossload3	18.47mV	8.07mV	14.73mV	7.27mV	Pass
Crossload4	29.52mV	10.59mV	9.98mV	11.11mV	Pass

All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

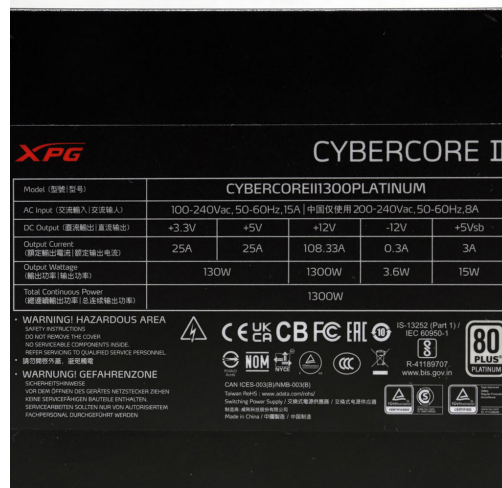
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Anex

XPG Cybercore II 1300 Platinum



Top side



Power specifications label

CERTIFICATIONS 115V



CERTIFICATIONS 230V



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